

Simulation of production and logistics processes

Plant Simulation



Application and benefits



Plant Simulation (formerly eM-Plant, Simple++) is a standard software for the simulation of complex production systems and logistics processes. The software is characterised by object-oriented, graphic and integrated modelling, simulation and animation of systems and business processes.

Plant Simulation can be used to optimise material flow, resource utilisation and supply chain processes at all levels of a company. processes can be optimised at all levels of a company. Plant Simulation is an important and the entry tool into the topic of the digital factory.

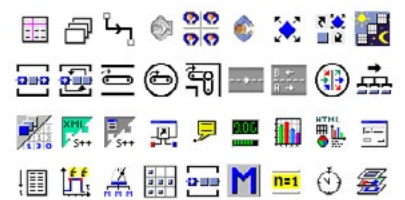
Typical questions that Plant Simulation can help to answer:

- Is the required output reached?
- How can investment costs be minimised?
- What happens in case of quantity changes?
- How can stocks be reduced?
- What is the best control strategy?
- What effect do rush orders have?
- What is the best planning alternative?



Special Features

- Simulation of complex production systems and control strategies
- Mapping of material and information flows
- Event-oriented
- Hierarchical and modular structure: clear structure supports complex models supports complex models top-down or bottom-up
- Building block oriented
- Object-oriented: intuitive use of application objects
- Inheritance: create fast, stable and error-free models and modify central measurement variables.
- Flexibly extendable: open architecture with several interfaces (ODBC, ActiveX, XLS, SDX layout, HTML, etc.) and own programming language (SimTalk).

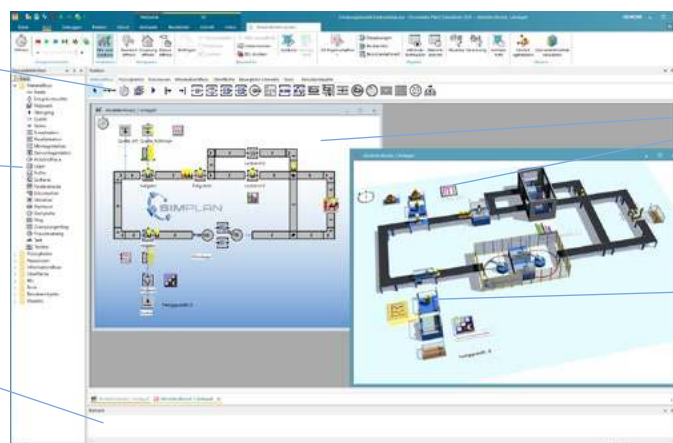


Standard modules from the Building Block Library

Module range

Classes-library
can be changed and extended at will

Console

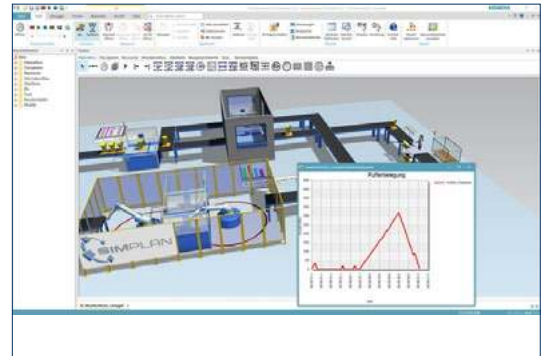


Network
(the actual simulation model)

used building blocks
Instances are inserted into networks, connected and parameterized

Benefits

- Transparent analysis of complex systems
- Identifying and eliminating bottlenecks that would otherwise have would have required costly and time-consuming corrective measures
- Calculation and comparison of real figures
- Computer-aided investment decisions
- Extensive analysis tools (Bottleneck-Analyzer, Sankey-diagrams, Gantt charts)
- 2D and 3D visualization and CAD integration
- Blocks and class libraries can be flexibly extended and adapted



Manufacturers / supplier

The manufacturer of Plant Simulation is Siemens Digital Industries Software. SimPlan is a longstanding and certified Siemens Smart Expert Partner.

Services around Plant Simulation

- Use of the software within the scope of simulation projects
- License sales
- Trainings, workshops, webinars (www.SimPlan.de/trainings)
- Development of application- or industry-specific building blocks, e.g. automotive, PV production, warehouse/logistics, supply chain
- Development of supplementary tools, e.g. SimView for the representation and presentation of the results

Why SimPlan?

- Objective and independent analysis
- Detailed knowledge of logistics and production processes with more than 30 years of project work
 - Development and use of standards
 - Continuous further development of simulation topics through research and development
- Excellent resources for prompt responses to your questions
- Close cooperation and project integration with high on-site quota
- Development of innovative solutions, efficiently solving challenges during project work

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